

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Virginia</b>		
NERC Region(s) .....		ECAR/SERC/MAAC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts) .....	21,257	16
Electric Utilities .....	17,127	14
Independent Power Producers & Combined Heat and Power .....	4,130	22
Net Generation (megawatthours) .....	75,309,420	21
Electric Utilities .....	61,806,347	17
Independent Power Producers & Combined Heat and Power .....	13,503,073	19
Emissions (thousand metric tons)		
Sulfur Dioxide .....	237	17
Nitrogen Oxide .....	79	23
Carbon Dioxide .....	46,125	21
Sulfur Dioxide (lbs/MWh) .....	6.9	17
Nitrogen Oxide (lbs/MWh) .....	2.3	31
Carbon Dioxide (lbs/MWh) .....	1,350	27
Total Retail Sales (megawatthours) .....	101,509,731	11
Full Service Provider Sales (megawatthours) .....	101,479,128	9
Deregulated Sales (megawatthours) .....	30,603	18
Direct Use (megawatthours) .....	2,995,409	14
Average Retail Price (cents/kWh) .....	6.27	33

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Virginia</b>			
1. Bath County .....	Hydro	Dominion Virginia Power	2,400
2. North Anna .....	Hydro, Nuclear	Dominion Virginia Power	1,843
3. Possum Point .....	Coal, Gas, Petroleum	Dominion Virginia Power	1,799
4. Chesterfield .....	Petroleum, Gas, Coal	Dominion Virginia Power	1,631
5. Surry .....	Nuclear	Dominion Virginia Power	1,625
6. Yorktown .....	Gas, Coal, Petroleum	Dominion Virginia Power	1,144
7. Clover .....	Petroleum, Coal	Dominion Virginia Power	882
8. Doswell Energy Center .....	Petroleum, Gas	Doswell Ltd Partnership	820
9. Chesapeake .....	Petroleum, Coal	Dominion Virginia Power	739
10. Clinch River .....	Petroleum, Coal	Appalachian Power Co	690

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Virginia</b>						
1. Dominion Virginia Power .....	Investor-Owned	68,323,177	25,792,476	33,396,930	8,962,099	171,672
2. Appalachian Power Co .....	Investor-Owned	15,555,495	6,160,504	3,812,641	5,582,350	0
3. Potomac Edison Co .....	Investor-Owned	2,779,894	1,142,020	580,665	1,057,209	0
4. Northern Virginia Elec Coop .....	Cooperative	2,603,080	1,611,894	658,417	332,769	0
5. Rappahannock Electric Coop .....	Cooperative	2,247,193	1,232,673	110,872	903,648	0
Total Sales, Top Five Providers.....		91,508,839	35,939,567	38,559,525	16,838,075	171,672
Percent of Total State Sales .....		90	88	94	87	100

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Virginia							
Electric Utilities.....	13,763	15,314	17,127	2.5	80.5	81.7	80.6
Coal.....	4,217	5,099	4,468	.6	24.7	27.2	21.0
Petroleum.....	1,207	2,046	1,915	5.3	7.1	10.9	9.0
Natural Gas.....	398	544	1,566	16.4	2.3	2.9	7.4
Dual Fired.....	1,484	1,146	2,314	5.1	8.7	6.1	10.9
Nuclear .....	3,349	3,392	3,467	.4	19.6	18.1	16.3
Hydroelectric .....	763	742	759	−.1	4.5	4.0	3.6
Pumped Storage .....	2,345	2,345	2,638	1.3	13.7	12.5	12.4
Independent Power Producers and Combined							
Heat and Power .....	3,330	3,434	4,130	2.4	19.5	18.3	19.4
Coal.....	894	1,122	1,328	4.5	5.2	6.0	6.2
Petroleum.....	6	12	358	57.5	*	.1	1.7
Natural Gas.....	164	360	430	11.3	1.0	1.9	2.0
Dual Fired.....	1,649	1,283	1,417	−1.7	9.6	6.8	6.7
Hydroelectric .....	22	22	21	−.5	.1	.1	.1
Other Renewables .....	595	635	576	−.4	3.5	3.4	2.7
Total Electric Industry.....	17,096	18,747	21,257	2.4	100.0	100.0	100.0
Coal.....	5,112	6,221	5,796	1.4	29.9	33.2	27.3
Petroleum.....	1,213	2,057	2,273	7.2	7.1	11.0	10.7
Natural Gas.....	562	904	1,996	15.1	3.3	4.8	9.4
Dual Fired.....	3,134	2,429	3,731	2.0	18.3	13.0	17.6
Nuclear .....	3,349	3,392	3,467	.4	19.6	18.1	16.3
Hydroelectric .....	785	763	780	−.1	4.6	4.1	3.7
Other Renewables .....	596	636	576	−.4	3.5	3.4	2.7
Pumped Storage .....	2,345	2,345	2,638	1.3	13.7	12.5	12.4

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Virginia							
Electric Utilities .....	52,732,286	63,814,565	61,806,347	1.8	85.0	88.4	82.1
Coal.....	22,448,944	31,471,297	29,145,703	2.9	36.2	43.6	38.7
Petroleum.....	2,373,888	2,654,660	4,982,314	8.6	3.8	3.7	6.6
Natural Gas.....	2,151,992	2,198,665	2,690,674	2.5	3.5	3.0	3.6
Nuclear .....	25,428,856	27,234,399	24,816,022	-3	41.0	37.7	33.0
Hydroelectric .....	1,070,830	1,210,984	1,669,793	5.1	1.7	1.7	2.2
Other Renewables .....	11	0	0	NM	.0	.0	.0
Pumped Storage .....	-742,235	-955,440	-1,498,159	NM	-1.2	-1.3	-2.0
Independent Power Producers and Combined							
Heat and Power .....	9,316,638	8,384,874	13,503,073	4.2	15.0	11.6	17.9
Coal.....	4,141,711	3,404,468	7,947,628	7.5	6.7	4.7	10.6
Petroleum.....	516,303	271,394	798,022	5.0	.8	.4	1.1
Natural Gas.....	2,529,147	2,038,080	1,928,391	-3.0	4.1	2.8	2.6
Other Gases .....	0	58	2,959	NM	.0	.0	*
Hydroelectric .....	75,286	72,311	111,776	4.5	.1	.1	.1
Other Renewables .....	2,050,900	2,598,563	2,714,295	3.2	3.3	3.6	3.6
Other .....	3,291	0	0	NM	*	.0	.0
Total Electric Industry.....	62,048,924	72,199,439	75,309,420	2.2	100.0	100.0	100.0
Coal.....	26,590,655	34,875,765	37,093,331	3.8	42.9	48.3	49.3
Petroleum.....	2,890,191	2,926,054	5,780,336	8.0	4.7	4.1	7.7
Natural Gas.....	4,681,139	4,236,745	4,619,065	-1	7.5	5.9	6.1
Other Gases .....	0	58	2,959	NM	.0	.0	*
Nuclear .....	25,428,856	27,234,399	24,816,022	-3	41.0	37.7	33.0
Hydroelectric .....	1,146,116	1,283,295	1,781,569	5.0	1.8	1.8	2.4
Other Renewables .....	2,050,911	2,598,563	2,714,295	3.2	3.3	3.6	3.6
Pumped Storage .....	-742,235	-955,440	-1,498,159	NM	-1.2	-1.3	-2.0
Other .....	3,291	0	0	NM	*	.0	.0

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Virginia</b>				
Coal (cents per million Btu).....	145.0	137.8	166.5	1.6
Average heat value (Btu per pound).....	12,778	12,603	12,826	*
Average sulfur Content (percent).....	1.0	1.0	1.0	-2
Petroleum (cents per million Btu).....	216.2	203.7	498.7	9.7
Average heat value (Btu per gallon).....	149,744	150,158	149,366	*
Average sulfur Content (percent).....	1.1	1.1	.6	-5.4
Natural Gas (cents per million Btu).....	256.6	295.4	617.5	10.3
Average heat value (Btu per cubic foot).....	1,037	1,050	1,035	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Virginia</b>				
Sulfur Dioxide				
Coal .....	200	219	200	*
Petroleum .....	12	20	25	8.0
Natural Gas .....	*	*	*	-3.1
Other .....	12	9	12	-4
Total .....	224	247	237	.6
Nitrogen Oxide				
Coal .....	112	119	67	-5.5
Petroleum .....	4	3	5	1.6
Gas .....	3	4	2	-7.4
Other .....	4	6	6	3.1
Total .....	124	132	79	-4.8
Carbon Dioxide				
Coal .....	29,258	36,480	38,222	3.0
Petroleum .....	2,818	2,759	4,653	5.7
Gas .....	2,437	2,379	2,342	-4
Geothermal .....	—	—	—	NM
Other .....	140	205	908	23.1
Total .....	34,653	41,824	46,125	3.2

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Virginia							
Retail Sales (thousand megawatthours)							
Residential.....	32,343	34,703	40,877	2.6	39.3	38.3	40.3
Commercial.....	22,948	26,176	41,179	6.7	27.9	28.9	40.6
Industrial.....	18,154	20,024	19,282	.7	22.1	22.1	19.0
Other.....	8,766	9,705	NA	NM	10.7	10.7	NA
Transportation.....	NA	NA	172	NM	NA	NA	.2
Total.....	82,210	90,609	101,510	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	2,507	2,608	3,174	2.7	49.2	49.0	49.9
Commercial.....	1,339	1,469	2,365	6.5	26.3	27.6	37.2
Industrial.....	755	764	815	.8	14.8	14.3	12.8
Other.....	493	484	NA	NM	9.7	9.1	NA
Transportation.....	NA	NA	9	NM	NA	NA	.1
Total.....	5,095	5,324	6,364	2.5	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	7.75	7.51	7.76	*	NA	NA	NA
Commercial.....	5.84	5.61	5.74	−.2	NA	NA	NA
Industrial.....	4.16	3.82	4.23	.2	NA	NA	NA
Other.....	5.63	4.98	NA	NM	NA	NA	NA
Transportation.....	NA	NA	5.46	NM	NA	NA	NA
Total.....	6.20	5.88	6.27	.1	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Virginia								
Number of Entities.....	5	16	1	13	1	1	2	39
Number of Retail Customers.....	2,728,215	159,588	1	411,861	1	2,238	NA	3,301,904
Retail Sales (thousand megawatthours) .....	87,990	4,691	9	8,634	155	31	NA	101,510
Percentage of Retail Sales .....	86.68	4.62	.01	8.51	.15	.03	NA	100.00
Revenue from Retail Sales (million dollars) .....	5,351	261	*	743	6	2	1	6,364
Percentage of Revenue.....	84.08	4.10	*	11.67	.10	.03	.02	100.00
Average Retail Price (cents/kWh).....	6.08	5.56	2.75	8.60	4.08	5.50	4.35	6.27

Table 9 Notes: Data are shown for All Sectors. **Full Service Providers** sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as Independent Power Producers or other full service providers) prior to delivery. **Other Providers** sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its service. The cooperative will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').

Totals may not equal sum of components because of independent rounding;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.

Direct Use is commercial or industrial use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.